

DTC	P3011	BATTERY BLOCK 1 BECOMES WEAK
DTC	P3012	BATTERY BLOCK 2 BECOMES WEAK
DTC	P3013	BATTERY BLOCK 3 BECOMES WEAK
DTC	P3014	BATTERY BLOCK 4 BECOMES WEAK
DTC	P3015	BATTERY BLOCK 5 BECOMES WEAK
DTC	P3016	BATTERY BLOCK 6 BECOMES WEAK
DTC	P3017	BATTERY BLOCK 7 BECOMES WEAK
DTC	P3018	BATTERY BLOCK 8 BECOMES WEAK
DTC	P3019	BATTERY BLOCK 9 BECOMES WEAK
DTC	P3020	BATTERY BLOCK 10 BECOMES WEAK
DTC	P3021	BATTERY BLOCK 11 BECOMES WEAK
DTC	P3022	BATTERY BLOCK 12 BECOMES WEAK
DTC	P3023	BATTERY BLOCK 13 BECOMES WEAK
DTC	P3024	BATTERY BLOCK 14 BECOMES WEAK

CIRCUIT DESCRIPTION

Refer to DTC P0A80 on page [05-902](#).

DTC No.	DTC Detection Condition	Trouble Area
P3011 P3012 P3013 P3014 P3015 P3016 P3017 P3018 P3019 P3020 P3021 P3022 P3023 P3024	Presence of a malfunctioning block is determined based on the voltages from the battery blocks (1 trip detection logic)	<ul style="list-style-type: none"> • HV battery assembly • Battery ECU

MONITOR DESCRIPTION

If there is an abnormal internal resistance or electromotive voltage in the battery blocks, the battery ECU determines that a malfunction has occurred. When the malfunction detection condition is satisfied, the battery ECU illuminates the MIL and sets a DTC.

MONITOR STRATEGY

Related DTCs	P3011 to P3024: HV battery/Rationality
Required sensor/components	HV battery
Frequency of operation	Continuous
Duration	TOYOTA's intellectual property
MIL operation	Immediately
Sequence of operation	None

TYPICAL ENABLING CONDITIONS

The monitor will run whenever the following DTCs are not present	TOYOTA's intellectual property
Other conditions belong to TOYOTA's intellectual property	–

TYPICAL MALFUNCTION THRESHOLDS

HV battery	Abnormal
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COMPONENT OPERATING RANGE

HV battery	DTCs P3011 to P3024 are not detected
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WIRING DIAGRAM

Refer to DTC P0A80 on page [05-902](#).

INSPECTION PROCEDURE**1 READ OUTPUT DTC(DTC P0A1F IS OUTPUT)**

- (a) Connect the hand-held tester or the OBD II scan tool to the DLC3.
- (b) Turn the power switch ON (IG).
- (c) Turn the hand-held tester or the OBD II scan tool ON.
- (d) On the hand-held tester, enter the following menus: DIAGNOSIS / ENHANCED OBD II / HV BATTERY / DTC INFO / TROUBLE CODES.
For the OBD II scan tool, see its instruction manual.
- (e) Read DTCs.

Result: DTC P0A1F is output

YES

REPLACE BATTERY ECU ASSY
(See page [21-98](#))

NO

REPLACE HV SUPPLY BATTERY ASSY (See page [21-54](#))